

## Curriculum Vitae

### John Ernest Sims

Address: Immunex Corporation  
51 University Street  
Seattle, Washington 98101

Date of Birth: March 11, 1947

Citizenship: USA

#### **Education**

- 1965-1969 Harvard College, Cambridge, Massachusetts  
Degree: B.A. cum laude, June 1969
- 1969-1970 University of Pennsylvania School of Medicine  
Philadelphia, Pennsylvania
- 1970-1979 Harvard University, Department of Biochemistry  
and Molecular Biology, Cambridge, Massachusetts  
Degree: Ph.D., June 1979
- 1979-1983 Post-doctoral fellow, laboratories of T. Rabbitts  
and C. Milstein, MRC Laboratory of Molecular Biology, Cambridge, England

#### **Employment**

- 1983-1984 Staff, Medical Research Council Laboratory of Molecular Biology, Cambridge,  
England
- 1984-1988 Staff Scientist, Molecular Biology Department,  
Immunex Corporation, Seattle, Washington
- 1989-1990 Senior Staff Scientist,  
Immunex Corporation, Seattle, Washington
- 1990-1992 Head, Division of Gene Discovery  
Department of Molecular Biology  
Immunex Corporation, Seattle, Washington
- 1993-2000 Director  
Department of Molecular Genetics  
Immunex Corporation, Seattle, Washington
- 2000-2002 Senior Director  
Department of Molecular Genetics  
Immunex Corporation, Seattle, Washington

2002 Vice President  
Department of Molecular Biology  
Immunex Corporation, Seattle, Washington

2002- Present Distinguished Fellow  
Molecular Immunology  
Amgen, Seattle, Washington

### **Activities**

Editorial Board, Journal of Interferon & Cytokine Research, 1991-Present

Ad hoc reviewer for journals:

Analytical Biochemistry, Brain Research, Circulation, Clinical & Experimental Metastasis, Cytokine, Endocrinology, European Cytokine Network, European Journal of Cell Biology, European Journal of Immunity, Human Molecular Genetics, Immunity, International Journal of Immunopharmacology, International Journal on Genes & Genomes, Journal of Clinical Investigation, Journal of Immunology, Journal of Molecular Biology, Laboratory Investigation, Life Sciences, Molecular Immunology, PNAS, Virology

Ad hoc reviewer for grants:

Welcome Trust, Canadian MRC, NIH (Allergy, Immunological Sciences Study Sections)  
Arthritis Research Council, United Kingdom

### **Patents**

U.S. Patent 5,296,592 (2001-F)  
Process for Purifying Interleukin-1 Receptors

U.S. Patent 5,319,071 (2001-E)  
Soluble Interleukin-1 Receptors

U.S. Patent 5,350,683 (2003-D)  
DNA Encoding Type II Interleukin-1 Receptors

U.S. Patent 4,968,607 (2001-A)  
Interleukin-1 Receptors

U.S. Patent 5,081,228 (2001-B)  
Interleukin-1 Receptors

U.S. Patent 5,180,812 (2002)  
Soluble Human Interleukin-1 Receptors, Compositions and Method of Use

**Patents (Continued)**

U.S. Patent 5,422,248  
DNA Sequences Encoding Granulocyte-Colony Stimulating Factor Receptors

U.S. Patent 5,464,937  
Type II Interleukin-1 Receptors

U.S. Patent 5,488,032  
Method of Using Soluble Human Interleukin-1 Receptors to Suppress Inflammation

U.S. Patent Re 3540  
Soluble Human Interleukin-1 Receptors, Compositions and Method of Use

U.S. Patent 5,492,888  
Method of Using Soluble Human Interleukin-1 Receptors to Suppress Immune Responses

U.S. Patent 5,576,191  
Cytokine that Binds ST2

U.S. Patent 5,589,456  
Granulocyte-Colony Stimulating Factor Receptors

U.S. Patent 5,767,064  
Soluble Type II Interleukin-1 Receptors and Methods

U.S. Patent 5,776,731  
DNA Encoding Type-I Interleukin-1 Receptor-Like Protein Designated 2F1

U.S. Patent 6,080,557  
IL-1/TNF- $\alpha$ -Activated Kinase (ITAK, and Methods of Making and Using the Same)

U.S. Patent 6,090,918  
Receptor Protein Designated 2F1

U.S. Patent 6,451,760 B1  
Treatment of Inflammation Using A 2F1 Polypeptide Or An Antibody Thereto

U.S. Patent 6,541,232 B1  
Polypeptides Having Kinase Activity

U.S. Patent 6,511,665 B1  
Antibodies to Interleukin-1 Receptors

U.S. Patent 6,555,520 B2  
Human TSLP DNA and Polypeptides

U.S. Patent 6,521,740 B1  
Type II Interleukin-1 Receptors

U.S. Patent 6,589,764 B1  
IL-18 Receptor Fusion Proteins

**Published Patent Cooperation Treaty (PCT) Applications**

PCT Serial No. PCT/US88/03926  
Publication No. WO 89/04838  
Interleukin-1 Receptors

PCT Serial No. PCT/US90/05434  
Publication No. WO 91/05046  
Granulocyte-Colony Stimulating Factor Receptors

PCT Serial No. PCT/US91/03498  
Publication No. WO 91/18982  
Type II Interleukin-1 Receptors

PCT Serial No. PCT/US97/00690  
Publication No. WO 97/25347  
IL-1 Receptor Interacting Protein

PCT Serial No. PCT/US97/01697  
Publication No. WO 97/31010  
Receptor Protein Designated 2F1

PCT Serial No. PCT/US97/08516  
Publication No. WO 97/47750  
IL-1/TNF-alpha-Activated Kinase (ITAK, and Methods of Making and Using the Same)

PCT Serial No. PCT/US98/27368  
Publication No. WO 99/32626  
SIGIRR DNA and Polypeptides

PCT Serial No. PCT/US98/27625  
Publication No. WO 99/32629  
TIGIRR DNA and Polypeptides

PCT Serial No. PCT/US99/00514  
Publication No. WO 99/35268  
IL-1 Delta DNA and Polypeptides

PCT Serial No. PCT/US99/01420  
Publication No. WO 99/37773  
ACPL DNA and Polypeptides

PCT Serial No. PCT/US99/01419  
Publication No. WO 99/37772  
IL-18 Receptors

PCT Serial No. PCT/US99/23533  
Publication No. WO 00/20595  
Interleukin-1 Homolog

### Research Publications

1. Sims, J. and Dressler, D. 1978. Site-specific initiation of a DNA fragment: Nucleotide sequence of the bacteriophage G4 negative strand initiation site. *Proc. Natl. Acad. Sci. USA* 75, 3094-3098.
2. Sims, J., Koths, K. and Dressler, D. 1978. Single-stranded phage replication: Positive- and negative-strand DNA synthesis. *Cold Spring Harbor Symposium* 43, 349-365.
3. Sims, J., Capon, D. and Dressler, D. 1979. dnaG (Primase)-dependent origins of DNA replication: Nucleotide sequences of the negative strand initiation sites of bacteriophages St-1,  $\phi$ K and  $\alpha$ 3. *J. Biol. Chem.* 254, 12615-12628.
4. Sims, J. and Benz, E. 1980. Initiation of DNA replication by the *Escherichia coli* dnaG protein: Evidence that tertiary structure is involved. *Proc. Natl. Acad. Sci. USA* 77, 900-904.
5. Benz, E., Sims, J., Dressler, D. and Hurwitz, J. 1980. Tertiary structure is involved in the initiation of DNA synthesis by the dnaG protein. In: *ICN-UCLA Symposium on Molecular and Cellular Biology. Mechanistic Studies of DNA Replication and Genetic Recombination*. Alberts, B. (ed.) Academic Press, New York, pp. 279-291.
6. Sims, J., Rabbitts, T.H., Estess, P., Slaughter, C., Tucker, P.W. and Capra, J.D. 1982. Somatic mutation in genes for variable portion of the immunoglobulin heavy chain. *Science* 216, 309-311.
7. Sims, J., Tunnacliffe, A., Smith, W.J. and Rabbitts, T.H. 1984. Complexity of human T-cell antigen receptor  $\beta$ -chain constant- and variable-region genes. *Nature* 312, 541-545.
8. Rabbitts, T.H., Lefranc, M.P., Stinson, M.A., Sims, J.E., Schroder, J., Steinmetz, M., Spurr, N.L., Solomon, E. and Goodfellow, P.N. 1985. The chromosomal location of T-cell receptor genes and a T cell rearranging gene: Possible correlation with specific translocations in human T cell leukemia. *EMBO J.* 4, 1461-1465.
9. Tunnacliffe, A., Sims, J.E. and Rabbitts, T.H. 1986. T3 $\delta$  pre-mRNA is transcribed from a non-TATA promoter and is alternatively spliced in human T cells. *EMBO J.* 5, 1245-1252.
10. Sims, J.E., March, C.J., Cosman, D., Widmer, M.B., MacDonald, H.R., McMahan, C.J., Grubin, C.E., Wignall, J., Jackson, J.L., Call, S.M., Friend, D., Alpert, A., Gillis, S., Urdal, D.L. and Dower, S.K. 1988. cDNA expression cloning of the receptor for interleukin-1, a member of the immunoglobulin superfamily. *Science* 241, 585-589.
11. Morrissey, P.J., Goodwin, R.G., Cosman, D., Sims, J.E., Lupton, S., Acres, B., Reed, S.G. and Namen, A.E. 1989. Recombinant IL-7, pre B cell growth factor, has costimulatory activity on purified mature T cells. *J. Exp. Med.* 169, 707-716.
12. Curtis, B.M., Gallis, B., Overell, R., McMahan, C.J., de Roos, P., Eisenman, J., Dower, S.K. and Sims, J.E. 1989. The T cell IL-1 receptor cDNA expressed in CHO cells regulates functional responses to IL-1. *Proc. Natl. Acad. Sci. USA* 86, 3045-3049.

### **Research Publications (Continued)**

13. Dower, S.K., Wignall, J., Schooley, K., McMahan, C.J., Jackson, J., Prickett, K.S., Lupton, S., Cosman, D. and Sims, J.E. 1989. Retention of ligand binding activity by the extracellular domain of the IL-1 receptor. *J. Immunol.* 142, 4314-4320.
14. Mosley, B., Beckmann, M.P., March, C.J., Idzerda, R.L., Gimpel, S.D., VandenBos, T., Friend, D., Alpert, A., Anderson, D., Jackson, J., Wignall, J.M., Smith, C., Gallis, B., Sims, J.E., Urdal, D., Widmer, M.B., Cosman, D. and Park, L.S. 1989. The murine interleukin-4 receptor: Molecular cloning and characterization of secreted and membrane bound forms. *Cell* 59, 335-348.
15. Bomsztyk, K., Sims, J.E., Stanton, T.H., Slack, J., McMahan, C.J., Valentine, M.A. and Dower, S.K. 1989. Evidence for different interleukin 1 receptors in murine B- and T-cell lines. *Proc. Natl. Acad. Sci. USA* 86, 8034-8038.
16. Gallis, B., Prickett, K.S., Jackson, J., Slack, J., Schooley, K., Sims, J.E. and Dower, S.K. 1989. Interleukin-1 induces rapid phosphorylation of the IL-1 receptor. *J. Immunol.* 143, 3235-3240.
17. Sims, J.E., Acres, R.B., Grubin, C.E., McMahan, C.J., Wignall, J.M., March, C.J. and Dower, S.K. 1989. Cloning of the interleukin-1 receptor from human T cells. *Proc. Natl. Acad. Sci. USA* 86, 8946-8950.
18. Slack, J., Sims, J.E., Pitt, A.M. and Dower, S.K. 1989. Application of the multiscreen system to cytokine radioreceptor assays. *BioTechniques* 7, 1132-1138.
19. Fanslow, W.C., Sims, J.E., Sassenfeld, H., Morrissey, P.J., Gillis, S., Dower, S.K. and Widmer, M.B. 1990. Regulation of alloreactivity in vivo by a soluble form of the interleukin-1 receptor. *Science* 248, 739-742.
20. Copeland, N.G., Silan, C.M., Kingsley, D.M., Jenkins, N.A., Cannizzaro, L.A., Croce, C.M., Huebner, K. and Sims, J.E. 1990. Chromosomal location of murine and human IL-1 receptor genes. *Genomics* 9, 44-50.
21. Munoz, E., Zubiaga, A.M., Sims, J.E. and Huber, B.T. 1990. IL-1 signal transduction pathways. I. Two functional IL-1 receptors are expressed in T cells. *J. Immunol.* 146, 136-143.
22. Spriggs, M., Lioubin, P., Slack, J., Cosman, D., Sims, J. and Bauer, J. 1990. Induction of an interleukin-1 receptor (IL-1R) on monocytic cells. Evidence that the receptor is not encoded by a T cell-type IL-1R mRNA. *J. Biol. Chem.* 265, 22499-22505.
23. Larsen, A., Davis, T., Curtis, B.M., Gimpel, S., Sims, J.E., Cosman, D., Park, L., Sorensen, E., March C.J. and Smith, C.A. 1990. Expression cloning of a human granulocyte colony-stimulating factor receptor: A structural mosaic of hematopoietin receptor, immunoglobulin, and fibronectin domains. *J. Exp. Med.* 172, 1559-1570.

### **Research Publications (Continued)**

24. Ostrowski, J., Sims, J., Sibley, C., Valentine, M., Dower, S., Meier, K., and Bomsztyk, K. 1991. A serine/threonine kinase activity is closely associated with a 65-kDa phosphoprotein specifically recognized by the  $\kappa$ B enhancer. *J. Biol. Chem.* 266, 12722-12733.
25. Bird, T.A., Woodward, A., Jackson, J.L., Dower, S.K. and Sims, J.E. 1991. Phorbol ester induces phosphorylation of the 80 kilodalton murine interleukin 1 receptor at a single threonine residue. *Biochem. Biophys. Res. Comm.* 177, 61-67.
26. McMahan, C.J., Slack, J.L., Mosley, B., Cosman, D., Lupton, S.D., Brunton, L.L., Grubin, C.E., Wignall, J.M., Jenkins, N.A., Brannan, C.I., Copeland, N.G., Huebner, K., Croce, C.M., Cannizzarro, L.A., Benjamin, D., Dower, S.K., Spriggs, M.K. and Sims, J.E. 1991. A novel IL-1 receptor, cloned from B cells by mammalian expression is expressed in many cell types. *EMBO J.* 10, 2821-2832.
27. Spriggs, M.K., Nevens, P.J., Grabstein, K., Dower, S.K., Cosman, D., Armitage, R.J., McMahan, C.J. and Sims, J.E. 1992. Molecular characterization of the interleukin-1 receptor (IL-1R) on monocytes and polymorphonuclear cells. *Cytokine* 4, 90-95.
28. Deyerle, K.L., Sims, J.E., Dower, S.K. and Bothwell, M.A. 1992. Pattern of IL-1 receptor gene expression suggests role in non-inflammatory processes. *J. Immunol.* 149, 1657-1665.
29. Spriggs, M.K., Hruby, E.E., Maliszewski, C.R., Pickup, D.J., Sims, J.E., Buller, M.L., and VanSlyke, J. 1992. Vaccinia and cowpox viruses encode a novel secreted interleukin-1-binding protein. *Cell* 71:145-152.
30. Bird, T.A., Schule, H.D., Delaney, P.B., Sims, J.E., Thoma, B., and Dower, S.K. 1993. Evidence that MAP (Mitogen-Activated Protein) kinase activation may be a necessary but not sufficient signal for a subset of responses in IL-1-treated epidermoid cells. *Cytokine* 4, 429-440.
31. Slack, J., McMahan, C.J., Waugh, S., Schooley, K., Spriggs, M.K., Sims, J.E. and Dower, S.K. 1993. Independent binding of interleukin-1 $\alpha$  and interleukin-1 $\beta$  to type I and type II IL-1 receptors. *J. Biol. Chem.* 268, 2513-2524.
32. Colotta, F., Re, F., Muzio, M., Bertini, R., Polentarutti, N., Sironi, M., Giri, J.G., Dower, S.K., Sims, J.E. and Mantovani, A. 1993. The type II receptor as a decoy target for IL-1 regulated by interleukin-4. *Science* 261, 472-475.
33. McKean, D.J., Podzorski, R.P., Bell, M.P., Nilson, A.E., Huntoon, C.J., Slack, J., Dower, S.K. and Sims, J. 1993. Murine T helper cell-2 lymphocytes express type I and type II IL-1 receptors, but only the type I receptor mediates costimulatory activity. *J. Immunol.* 151:3500.

### **Research Publications (Continued)**

34. Sims, J.E., Gayle, M.A., Slack, J.L., Alderson, M.R., Bird, T.A., Giri, J.G., Colotta, F., Re, F., Mantovani, A., Shanebeck, K., Grabstein, K.H. and Dower, S.K. 1993. Interleukin-1 signalling occurs exclusively via the type I receptor. *Proc. Natl. Acad. Sci. USA* 90, 6155-6159.
35. Iwasaki, T., Sims, J.E., Grabstein, K., Dower, S.K., Rachie, N. and Bomsztyk, K. 1993. Comparison of IL-1 $\alpha$  effectiveness in activating murine B and T cell lines. *Cytokine* 5:5, 416-426.
36. Gayle, M.A., Sims, J.E., Dower, S.K. and Slack, J.L. 1994. Monoclonal antibody 1994:01 (also known As Alva 42) reported to recognize Type II IL-1 receptor is specific for HLA-DR alpha and beta chains. *Cytokine*. 4:1, 83-86.
37. Arend, W. P., Malyak, M., Smith, M. F. Jr., Whisenand, T. D., Slack, J. L., Sims, J. E., Giri, J. G., Dower, S. K. 1994. Binding of IL-1 $\alpha$ , IL-1 $\beta$ , and IL-1 receptor antagonist by soluble IL-1 receptors and levels of soluble IL-1 receptors in synovial fluids. *J. Immunol.* 153:10, 4766-4774.
38. Giri, J.G., Wells, J., Dower, S.K., McCall, C.E., Guzman, R.N., Slack, J., Bird, T.A., Shanebeck, K., Grabstein, K.H., Sims, J.E., and Alderson, M.R. 1994. Elevated levels of shed type II IL-1 receptor in sepsis: potential role for Type II receptor in regulation of IL-1 responses. *J. Immunol.* 153:12, 5802-5809.
39. Groves, R.W., Giri, J., Sims, J., Dower, S.K., and Kupper, T.S. 1995. Inducible expression of type 2 IL-1 receptors by cultured human keratinocytes. *J. Immunol.* 154:8, 4065-4072.
40. Sims, J., Painter, S., Gow, I. 1995. Genomic organization of the Type I and Type II IL-2 receptors. *Cytokine*. 7:6, 483-490.
41. Parnet, P., Garka, K.E., Bonnert, T.P., Dower, S.K., and Sims, J.E. 1996. IL-1 Rrp is a novel receptor-like molecule similar to the Type I IL-1 receptor and its homologues T1/ST2 and IL-1R AcP. *J. Biol. Chem.* 271(8), 3967-3970.
42. Mitcham, J.L., Parnet, P., Gerhart, M.J., Garka, K.E., Taguchi, T., Testa, J.R., Gayle, M.A., Slack, J.L., Dower, S.K., and Sims, J.E. 1996. T1/ST2 signaling establishes it as a member of an expanding IL-1 receptor family. *J. Biol. Chem* 271, 5777-5783.
43. Gayle, M.A., Slack, J.L., Bonnert, T.P., Renshaw, B.R., Sonoda, G., Taguchi, T., Testa, J.R., Dower, S.K., and Sims, J.E. 1996. Cloning of a putative ligand for the T1/ST2 receptor. *J. Biol. Chem.* 271, 5784-5789.
44. Taguchi, T., Mitcham, J.L., Dower, S.K., Sims, J.E., and Testa, J.R. 1996. Chromosomal localization of TIL, a gene encoding a protein related to the drosophila transmembrane receptor toll, to human chromosome 4p14. *Genomics* 32, 486-488.



### **Research Publications (Continued)**

45. Pruitt, J.H., Burrell Welborn, M., Edwards, P.D., Harward, T.R.S., Seeger, J.W., Martin, T.D., Smith, C., Kenney, J.A., Wesdorp, R.I.C., Meijer, S., Cuesta, M.A., Abouhanze A., Copeland, E.M., Giri, J., Sims, J.E., Moldawer, L.L. and Oldenburg, H.S.A. 1996. Increased soluble Interleukin-1 (IL-1) Type II receptor concentrations in post-operative patients and in patients with sepsis syndrome. *Blood* 87(8), 3282-3288.
46. Colotta, F., Saccani, S., Giri, J.G., Sims, J.E., Introna, M., and Mantovani, A. 1996. Regulated expression and release of the Interleukin 1 (IL-1) decoy receptor in human mononuclear phagocytes. *J. Immunol.* 156, 2534-2541.
47. Re, F., Sironi, M., Muzio, M., Matteucci, C., Introna, M., Orlando, S., Pentonrol, G., Dower, S.K., Sims, J.E., Colotta, F., Mantovani, A. 1996. Inhibition of Interleukin-1 responsiveness by Type-II receptor gene-transfer - A surface receptor with anti-Interleukin-1 function. *J. Exp. Medicine* 183, 1841-1850.
48. Ye, K., Vannier, E., Clark, B., Sims, J., Dinarello, C. 1996. Three distinct promoters direct transcription of different 5' untranslated regions of the human Interleukin-1 Type I receptor: A possible mechanism for control of translation. *Cytokine* 8, 421-429.
49. Torcia, M., Lucibello, M., Vannier, E., Fabiana S., Miliani, A., Guidi, G., Spada, O., Dower, S.K., Sims, J.E., Shaw, A.R., Dinarello, C.A. and Cozzolino, G.E. 1996. Modulation of osteoblast-activating factor activity of multiple myeloma bone marrow cells by different Interleukin-1 inhibitors. *Exp. Hem.* 24:8, 868.
50. Bonnert, T.P., Garka, K.E., Parnet, P., Sonoda, G., Testa, J.R., and Sims, J. 1997. The cloning and characterization of human MyD88: A member of an IL-1 receptor related family. *FEBS Letters* 402:81.
51. Saccani, S., Polentarutti, N., Penton-Rol, G., Sims, J.E., and Mantovani, A. 1998. Divergent effects of lps on expression of IL-1 receptor family members in mononuclear phagocytes in vitro and in vivo. *Cytokine* 10(10), 773.
52. Thomassen, E., Bird, T.A., Renshaw, B.R., Kennedy, M. and Sims, J.E. 1998. Binding of IL-18 to the IL-1R homologous receptor IL-1Rr1 leads to activation of signalling pathways similar to those used by IL-1. *J Interferon and Cytokine Research* 18:1077-1088.
53. Born, T.L., Thomassen, E., Bird, T.A., and Sims, J.E. 1998. Cloning of a novel receptor subunit, AcPL, required for Interleukin-18 signaling. *J. Biol. Chem.* 273:29445-29450.
54. Thomassen, E., Renshaw, B.R., Sims, J.E., 1999. Identification and characterization of SIGIRR, a molecule representing a novel subtype of the IL-1R superfamily. *CYTOKINE*, Vol. 11, No. 6(June), 1999; pp 389-399.
55. Smith, D.E., Renshaw, B.R., Ketchum, R.R., Kubin, M., Garka, K.E., Sims, J.E., 2000. Four new members Expand the IL-1 Superfamily. *J. Biol. Chem.* 2000 Jan 14 275(02): 1169.

### **Research Publications (Continued)**

56. Slack, J.E., Schooley, K., Bonnert, T.P., Mitcham, J.L., Qwarnstrom, E.E., Sims, J.E., and Dower, S.K., 2000. Identification of two major sites in the type I interleukin-1 receptor cytoplasmic region responsible for coupling to pro-inflammatory signalling pathways. *J. Biol. Chem.* 2000 Feb 18 275(07): 4670-78.
57. Born, T.L., Morrison, L.A., Esteban, D.J., VandenBos, T., Thebeau, L.G., Chen, N., Spriggs, M.K., Sims, J.E., and Buller, R.M.L., 2000. A poxvirus protein that binds to and inactivates IL-18, and inhibits NK cell response. *J. Immunol.* 2000 Mar 15 164(06): 3246-54.
58. Bessis, N., Guery, L., Mantovani, A., Vecchi, A., Sims, J.E., Fradelizi, D., and Boissier, M.C., 1999. The type II decoy receptor of interleukin-1 inhibits murine collagen-induced arthritis. *Eur. J. Immunol.* 2000 Mar 30(03): 867-75.
59. Born, T.L., Smith, D.E., Garka, K.E., Renshaw, B.R., Bertles, J.S., Sims, J.E., 2000. Identification and characterization of two members of a novel class of the interleukin-1 receptor (IL-1R) family: delineation of a new class of IL-1R-related proteins based on signaling. *J. Biol. Chem.* Sep 29; 275(39): 29946-54
60. Sims, J.E., Williams, D.E., Morrissey, P.J., Garka, K., Foxworthe, D., Price, V., Friend, S., Farr, A., Bedell, M.A., Jenkins, N.A., Copeland, N.G., Grabstein, K., and Paxton, R.J., 2000. Molecular cloning and biological characterization of a novel murine lymphoid growth factor. *J. Exp. Med.*, 2000 Sep 5 192(05): 671-80.
61. Park, L.S., Martin, U., Garka, K., Gliniak, B., DiSanto, J.P., Muller, W., Largaespada, D.A., Copeland, N.G., Jenkins, N.A., Farr, A.G., Ziegler, S.F., Morrissey, P.J., Paxton, R., and Sims, J., 2000. Cloning of the murine TSLP receptor: formation of a functional heteromeric complex requires interleukin-7 receptor. *J. Exp. Med.*, 2000 Sep 5 192(05): 659-70.
62. Quentmeier H, Drexler HG, Fleckenstein D, Zaborski M, Armstrong A, Sims JE, Lyman SD. Cloning of human thymic stromal lymphopoietin (TSLP) and signaling mechanisms leading to proliferation. *Leukemia* 2001 Aug;15(8):1286-92
63. Fitzgerald, K.A., Bowie, A.G., Palsson-McDermott, E.M., Dunne, A., Gray, P., Harte, M.T., Jefferies, C.A., Mansell, A.S., McMurray, D., Smith, D.E., Sims, J.E., Bird, T.A., O'Neill, L.A.J., 2001. Mal (My Dss adapter-like) recruits IRAK-2 and is required for Toll-like receptor-4 signalling. *Nature*, 2001 413: 78-83.
64. Sims, J.E., Nicklin, M.J.H., Bazan J.F., Barton, J.L., Busfield, S.J., Ford, J.E., Kastelein, R.A., Kumar, S., Lin, H., Mulero, J.J., Pan J.G., Pan, Y., Smith, D.E., Young, P.R. A new nomenclature for IL-1-family genes. *Trends in Immunology*, 2001 Oct. 22(10):536-537
65. Taylor, S.L., Renshaw, B.R., Garka, K.E., Smithe, D.E., Sims, J.E. Genomic Organization of the Interleukin-1 Locus. *Genomics*, 2002 May; 79(5): 726-33.

### **Research Publications (Continued)**

66. Holland PM, Milne A, Garka K, Johnson RS, Willis C, Sims JE, Rauch CT, Bird TA, Virca GD . Purification, Cloning, and Characterization of Nek8, a Novel NIMA-related Kinase, and Its Candidate Substrate Bicd2. *J Biol Chem* 2002 May 3;277(18):16229-40.
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